## **IN THE CLAIMS:**

15

16

source entity.

Claims 1-20 Canceled.

21. (Currently Amended) A system for discovering and maintaining geographic location 1 information for network sites, the system comprising: 2 a portable computing unit having a location discovery entity, a message generator 3 configured to generate network messages, and a communication facility for transmitting 4 the network messages onto a computer network; and 5 a location generator configured and arranged to determine physical coordinates 6 for its current location, the location generator coupled to the computing unit for providing 7 physical coordinates thereto; 8 whereby, the discovery entity and the message generator cooperate to acquire physical co-10 ordinates from the location generator for a given network site, and to load the acquired 11 physical coordinates into one or more network messages, and 12 the communication facility transmits the one or more network messages contain-13 ing the physical coordinates to a designated network entity; and 14

the one or more network messages correspond to an emergency call from the

- 22. (Previously Presented) The system of claim 21 wherein
- the location generator includes a Global Positioning System (GPS) receiver for
- 3 determining physical coordinates.
- 23. (Previously Presented) The system of claim 22 wherein
- the location generator further includes an inertial navigation unit configured to
- produce signals responsive to the unit being moved, the inertial navigation unit coupled
- 4 to the portable computing unit for providing the inertial navigation signals thereto, and
- the discovery entity is configured to integrate the inertial navigation signals with
- 6 physical coordinates acquired by the GPS receiver for a substitute location to produce
- 7 physical coordinates for the given network site.
- 24. (Previously Presented) The system of claim 21 further comprising one or more an-
- tenna coupled to the location discovery entity of the portable computing unit, the one or
- more antenna configured to receive radio signals from a plurality of transmitting base sta-
- 4 tions, wherein
- the radio signals are encoded with the physical coordinates of the respective base
- 6 station, and
- the location discovery entity is configured to compute the physical coordinates for
- its current location based on the received radio signals.

- 25. (Previously Presented) The system of claim 24 wherein the location discovery entity
- employs triangulation techniques to compute the physical coordinates for its current loca-
- 3 tion.
- 1 26. (Previously Presented) The system of claim 24 wherein the radio signals are Ultra
- 2 Wideband (UWB) radio signals.
- 27. (Previously Presented) The system of claim 21 wherein the given network site corre-
- sponds to a Voice over Internet Protocol (VoIP) phone.
- 28. (Currently Amended) A method for discovering and maintaining location information
- of a plurality of network entities forming a computer network, the method comprising the
- 3 steps of:
- 4 utilizing a Global Positioning System (GPS) unit to derive physical coordinates of
- a location associated with a first network entity of the computer network;
- generating one or more network messages containing the physical coordinates de-
- 7 rived for the first network entity; and
- sending the one or more network messages containing the physical coordinates to
- a second network entity of the computer network, whereby the second network entity as-
- sociates the physical coordinates with the first network entity, and the one or more net-
- work messages correspond to an emergency call from the source entity.

- 29. (Currently Amended) A storage medium containing program instructions executable
- by a processing element for associating physical location information with one or more
- network messages originating from a source entity, the one or more network messages
- being directed to a destination entity, the program instructions comprising program in-
- 5 structions for:
- receiving physical coordinates of the location of the source entity;
- storing the physical coordinates received for the source entity;
- receiving the one or more network messages originating from the source entity;
- forwarding the one or more network messages toward the destination entity; and
- sending the physical coordinates received for the source entity to the destination
- entity, and the one or more network messages correspond to an emergency call from the
- 12 source entity.
- 30. (Previously Presented) The storage medium of claim 29 wherein the program instruc-
- tions for sending comprise program instructions for appending the physical coordinates to
- at least one of the one or more network messages originating from the source entity.
- 31. (Previously Presented) The storage medium of claim 29 wherein the program instruc-
- 2 tions for sending comprise program instructions for:
- generating one or more network messages that are separate from the network
- 4 messages originating from the source entity;

5	loading the physical coordinates into the one or more separate network messages;
6	and
7	sending the one or more separate network messages to the destination entity.
1	32. (Currently Amended) The storage medium of claim 29 wherein
2	the source entity is a Voice over Internet Protocol (VoIP) phone
3	, and the one or more network messages correspond to an emergency call from the VoIP
4	<del>phone</del> .
1	33. (Previously Presented) The storage medium of claim 32 wherein the destination entity
2	corresponds to a Public Safety Answering Point (PSAP).
1	34. (Previously Presented) The storage medium of claim 29 wherein
2	the program instructions are executed by a network switch having a memory, and
3	the physical coordinates are stored in the memory of the network switch.
1	35. (Currently Amended) A system for discovering and maintaining geographic location
2	information for network sites, the system comprising:
3	means for generating physical coordinates corresponding to the location of a first
4	network entity;

- means for loading the physical coordinates generated for the first network entity
- 6 into one or more network messages; and
- means for sending the one or more network messages to a selected intermediate
- network device for storage thereby, and the one or more network messages correspond to
- an emergency call from the source entity.
- 36. (Previously Presented) The system of claim 35 wherein the generating means utilizes
- at least one of a plurality of Global Positioning System (GPS) signals and an inertial
- 3 navigation unit to generate the physical coordinates.
- 37. (Previously Presented) The system of claim 35 wherein the network sites correspond
- to the network entities of a computer network disposed within an office.
- 38. (Previously Presented) The system of claim 37 wherein the network entities include
- one or more of Voice over Internet Protocol (VoIP) phones, personal computers, servers
- and intermediate network devices.
- 1 39. (Previously Presented) The system of claim 35 wherein
- the selected intermediate network device has a plurality of ports,
- the physical coordinates generated for the first network entity are received on a
- 4 given port,

- the intermediate network device associates the received physical coordinates with
- 6 the given port.
- 40. (Previously Presented) The system of claim 39 wherein the received physical coordi-
- 2 nates are bound to the given port.

Please add new claims 41, et seq., as follows:

- 41. (New) The system as in claim 21, further comprising: 1 the emergency call is to a Public Safety Answering Point (PSAP). 2 42. (New) The method of claim 28, further comprising: 1 sending the emergency call to a Public Safety Answering Point (PSAP). 2 43. (New) The storage medium of claim 29, comprising: 1 storing instructions for sending the emergency call to a Public Safety Answering 2 Point (PSAP). 3 44. (New) The system of claim 35, further comprising: ì means for sending the emergency call to a Public Safety Answering Point 2 (PSAP). 3 45. (New) A method for discovering and maintaining geographic location information for 1 network sites, comprising: 2
- loading the physical coordinates generated for the first network entity into one or 5 6

3

4

entity;

generating physical coordinates corresponding to the location of a first network

sending the one or more network messages to a selected intermediate network de-7 vice, the selected intermediate network device having a plurality of ports; 8 receiving the physical coordinates generated for the first network entity on a given 9 port; and 10 associating the received physical coordinates with the given port. 11 46. (New) The method of claim 45, further comprising: 1 binding the received physical coordinates to the given port. 2 47. (New) The method of claim 45, further comprising: 1 generating the one or more network messages to correspond to an emergency call. 2 48. (New) The method of claim 47, further comprising: i 2 directing the emergency call to a Public Safety Answering Point (PSAP). 49. (New) The method of claim 45, further comprising: 1 2 using a Voice over Internet Protocol (VoIP) phone as the first network entity. 50. (New) A system to discover and maintain geographic location information for netı work sites, comprising: 2 means for generating physical coordinates corresponding to the location of a first 3

network entity;

- means for loading the physical coordinates generated for the first network entity
- 6 into one or more network messages;
- means for sending the one or more network messages to a selected intermediate
- 8 network device, the selected intermediate network device having a plurality of ports;
- means for receiving the physical coordinates generated for the first network entity
- on a given port; and
- means for associating the received physical coordinates with the given port.
- 1 51. (New) The system of claim 50, further comprising:
- means for binding the received physical coordinates to the given port.
- 1 52. (New) The system of claim 50, further comprising:
- means for generating the one or more network messages to correspond to an
- 3 emergency call.
- 1 53. (New) The system of claim 52, further comprising:
- means for directing the emergency call to a Public Safety Answering Point
- 3 (PSAP).
- 1 54. (New) The system of claim 50, further comprising:
- means for using a Voice over Internet Protocol (VoIP) phone as the first network
- 3 entity.

- 1 55. (New) An intermediate network device to discover geographic location information
- 2 for network sites, comprising:
- means for receiving a one or more network messages at the intermediate network
- device, the one or more network messages carrying physical coordinates corresponding to
- 5 the location of a first network entity, the selected intermediate network device having a
- 6 plurality of ports, and receiving the physical coordinates generated for the first network
- 7 entity on a given port; and
- means for associating the received physical coordinates with the given port.
- 1 56. (New) A computer readable media, comprising:
- said computer readable media containing instructions for execution on a processor
- for the practice of a method for operation on an intermediate network device to discover
- 4 geographic location information for network sites, having,
- receiving a one or more network messages at the intermediate network device, the
- one or more network messages carrying physical coordinates corresponding to the loca-
- tion of a first network entity, the selected intermediate network device having a plurality
- of ports, and receiving the physical coordinates generated for the first network entity on a
- 9 given port; and
- associating the received physical coordinates with the given port.